

PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/762,568

DATE: 02/26/2001
 TIME: 17:27:52

Input Set : A:\Cpg.pto
 Output Set: N:\CRF3\02262001\I762568.raw

**Does Not Comply
 Corrected Diskette Needed**
See pp 2, 3

```

3 <110> APPLICANT: Nippon Institute for Biological Science
5 <120> TITLE OF INVENTION: novel plasmid vector
7 <130> FILE REFERENCE: PCTF0001-0
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/762,568
C--> 9 <141> CURRENT FILING DATE: 2001-02-06
9 <150> PRIOR APPLICATION NUMBER: JP, Japanese Patent Application No. Hei 11-158351
W--> 10 <151> PRIOR FILING DATE: 1999-6-4
12 <160> NUMBER OF SEQ ID NOS: 13
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 31
16 <212> TYPE: DNA
17 <213> ORGANISM: Artificial Sequence
19 <220> FEATURE:
20 <223> OTHER INFORMATION: Designed PCR primer including 3' region of U3 and VspI restriction
enzyme
21 site to multiply RSV LTR.
23 <400> SEQUENCE: 1
24 ggcattaatg tagtcttatg caatactct g 31
26 <210> SEQ ID NO: 2
27 <211> LENGTH: 40
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Designed PCR primer including 5' non coding region of p19 gene, HincII,
33 EcoRV and BglII restriction enzyme site to multiply RSV LTR and down stream
34 region of LTR.
36 <400> SEQUENCE: 2
37 gttaacgata tcagatctgc ttgatccacc gggcgaccag 40
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 36
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Designed PCR primer including 5' region of RSV integrase gene and BamHI
46 restriction enzyme site to multiply RSV integrase gene.
48 <400> SEQUENCE: 3
49 ttggatccat gcccttgaga gaggctaaag atcttc 36
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 33
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Designed PCR primer including 3' region of RSV integrase gene, polyA
58 signal to multiply RSV integrase gene.
60 <400> SEQUENCE: 4
61 ttatttttaa ctctcgttg cagcaagggt gtc 33
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 29

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65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Designed PCR primer including 5' region of U5 and VspI restriction
enzyme
70      site to multiply RSV LTR.
72 <400> SEQUENCE: 5
73 ggcattaatg aagccttcgt cttcattca 29
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 51
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Designed PCR primer including 3' region of RSV integrase gene, polyA
82      signal, nuclear localization signal of SV40 large T antigen to multiply RSV
83      integrase gene.
85 <400> SEQUENCE: 6
86 ttatttttaa acctctctct tcttcttagg actctcgttg gcagcaaggg t 51
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 858
90 <212> TYPE: DNA
91 <213> ORGANISM: Rous sarcoma virus
93 <220> FEATURE:
W--> 94 <221> NAME/KEY: TATA_signal
95 <222> LOCATION: (84)...(90)
W--> 96 <221> NAME/KEY: polyA_signal
97 <222> LOCATION: (107)...(112)
W--> 98 <221> NAME/KEY: TATA_signal
99 <222> LOCATION: (431)...(437)
W--> 100 <221> NAME/KEY: polyA_signal
101 <222> LOCATION: (454)...(459)
102 <223> OTHER INFORMATION: A part of circular form of RSV DNA, tandem repeat LTRs and adjacent non
103      coding region.
105 <400> SEQUENCE: 7
106 acgactcgtgc cttattagga aggcaacaga cgggtctaac acggattgga cgaaccactg 60
107 aattccgcgat tgcggagata ttgtatttaa gtgcctagct cgatacaata aacgcatttt 120
108 tacacttaac cacattgtgtg tgcacctggg ttgatggctg gaccgttgat tccctcagca 180
109 ctacagagcac atgcattgaag cagaaggctt cattaatgta gtcttatgca atactcctgt 240
110 agtcttgcaa catgcttatg taaagatgag tttagcaaat gccttacaag gagagaaaaa 300
111 gcaccggtgca cgacgattgg tggaaagtaag gtggatgatg cgtaggtaag atcgtgcctt 360
112 attaggaagg caacagacgg gtctaacacg gattggacga accactgaat tccgcaattg 420
113 ggagatattg tatttaagtg cctagctcga tacaataaac gccattttac cattcaccac 480
114 attggtgtgc aactgggttg atggctggac cgttgattcc ctgacgacta cgagacacatg 540
115 catgaagcag aagcttcctc ttgggtgacc cgaactgata gttagggaat agtggctggc 600
116 cacagacggc gtggcgatcc tgccctcacc cgtctcgtct attcggggag cggacgatga 660
117 cctagttaga gggggctgcy gcttaggagg gcagaagctg agtggcgctc gagggagctc 720
118 tactgcaagg agccacagata cctacacgag aactcagaga gtcgttggaa gacgggaaga 780
119 aagcccgacg actgagcggt ccaacccagg cgtgattccg gttgctctgc gtgacccctg 840
120 tgcgccggtg gatcaagc 858
122 <210> SEQ ID NO: 8

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*features misspelled:
 TATA_signal
 insert underscore between words*

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123 <211> LENGTH: 972
124 <212> TYPE: DNA
125 <213> ORGANISM: Rous sarcoma virus
127 <220> FEATURE:
128 <221> NAME/KEY: CDS
129 <222> LOCATION: 1...972
131 <221> NAME/KEY: CDS
132 <222> LOCATION: 1...858
135 <400> SEQUENCE: 8
136 ccottgagag aggcataaga ttttcatacc gctctccata ttggaccocg cgcgctatcc 60
137 aaagcgtgta atatatctat gcagcaggct agggagggtt ttcagacctg cccgcattgt 120
138 aattcagccc ctgcgttgga gcccgagta aacctagggt gtttgggacc cctacagata 180
139 ttgcagacag accttaacgt tgagcctaga atggccccc gttcctgctt cgtcgtttact 240
140 gtggacacgc cctcatcagc gatagtcgta actcagcatg gccgtgtcac atcggttgct 300
141 gtacacacatc attgggccac ggctatcgcc gttttgggaa gaacaaaggc cataaaaaaca 360
142 gataacgggt cctgcttcac gctcaaatcc acgcgagagt ggctcgcgag atgggggata 420
143 gcacacacca ccgggattcc gggtaaattcc cagggtcaag ctatggtaga gccggccaac 480
144 cggctcctga aagataggat ccgtgtgctt gcggaggggg acggtcttat gaaaagaatc 540
145 cccaccagca aacaggggga actattagcc aaggcaatgt atgcctccaa tcacttttag 600
146 cgtggtgaaa acacgaaaac accgatacaa aaacactgga gacctaccgt tcttacagaa 660
147 ggaacccccc ttaaaatagc aatagagaca ggggagtggt aaaaaggatg gaacgtgctg 720
148 gtctggggag gaggttatgc cgtgtgaaa aacagggaca ctgataaggt tatttgggta 780
149 cccctcgtcaa aagttaaacc ggacatcacc caaaaggatg aggtgactaa gaaagatgag 840
150 gcgagccctc tttttgcagg catttctgac tggataccct ggggagacaa gcaagaagga 900
151 ctcaaggag aaaccgctag caacaagcaa gaaagaccg gagaagacac ctttctgtcc 960
152 aacgagagtt aa 972
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 21
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
W--> 158 <220> FEATURE:
159 <223> OTHER INFORMATION: Designed PCR primer including 5' region of GFP gene and a part ofNheI
160 restriction enzyme site to multiply GFP gene.
162 <400> SEQUENCE: 9
163 ctagcgtcac cgttcgccac c 21
165 <210> SEQ ID NO: 10
166 <211> LENGTH: 20
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
W--> 169 <220> FEATURE:
170 <223> OTHER INFORMATION: Designed PCR primer including antisense sequence of GFP ORF to multiply
a
171 part of GFP gene.
173 <400> SEQUENCE: 10
174 gttgcgctcc tcttgaagt 20
176 <210> SEQ ID NO: 11
177 <211> LENGTH: 21
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
W--> 180 <220> FEATURE:

? Which response for CDS?
No CDS shown.

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181 <223> OTHER INFORMATION: Designed PCR primer including U5 region LTR sequence to
182 multiply a part of integrated plasmid vector.
184 <400> SEQUENCE: 11
185 ttggtgtgca cctgggttga t 21
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 36
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
W--> 191 <220> FEATURE:
192 <223> OTHER INFORMATION: Designed PCR primer including 5' end of GFP ORF sequence to
193 multiply a part of GFP gene.
195 <400> SEQUENCE: 12
196 atggtgagca agggcgagga gctgttcacc ggggtg 36
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 20
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
W--> 202 <220> FEATURE:
203 <223> OTHER INFORMATION: Designed PCR primer including a part of GFP ORF sequence to
204 multiply a part of GFP gene.
206 <400> SEQUENCE: 13
207 gtcgagctgg acggcgacgt 20
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VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:10 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:94 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:96 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:98 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:100 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:158 M:283 W: Missing Blank Line separator, <220> field identifier
L:169 M:283 W: Missing Blank Line separator, <220> field identifier
L:180 M:283 W: Missing Blank Line separator, <220> field identifier
L:191 M:283 W: Missing Blank Line separator, <220> field identifier
L:202 M:283 W: Missing Blank Line separator, <220> field identifier